ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION            | INITIALS | ID NO. | DATE     |
|---------------------|----------|--------|----------|
| FEE DETERMINATION   | 9.4      | 9      | 141/69   |
| O.I.P.E. CLASSIFIER | n        |        | 12/16    |
| FORMALITY REVIEW    | 1/3/     | 71480  | 12-27-99 |

## INDEX OF CLAIMS

| , | Rejected                   | N |              |
|---|----------------------------|---|--------------|
|   | Allowed                    | 1 | Interference |
|   | (Through numeral) Canceled | Α | Appeal       |
|   | Pactricted                 |   | Ohiected     |

| Cla      | im       | αË               | て              |              | Date            | •               | _        |               |                   | 7        | ſ   | Clai   | m           |          |                | -            |                | ate      |         | -  |         |                  | C          | lair          | n T |  |                |  | Date   | •              |  |              |          |
|----------|----------|------------------|----------------|--------------|-----------------|-----------------|----------|---------------|-------------------|----------|-----|--------|-------------|----------|----------------|--------------|----------------|----------|---------|--|---------|------------------|------------|---------------|-----|--|----------------|--|--|----------------|--|--------------|----------|
| $\Box$   | $\Box$   | 616              | Ŕ              |              |                 | ٦               | T        | П             | Т                 | ٦        | Ì   | $\neg$ | ┰           | T        | $\exists$      | Т            | T              |          | Т       | Τ  |         | П                |            | $\overline{}$ |     |  |                | $\Box$   | П  |                | $\Box$   | $\Box$       |          |
| ᆲ        | Original | 97               | Ø              | ۱ ۱          | ł               | -               |          | - }           |                   |          | - 1 | Finat  | pugua<br>51 |          |                | 1            |                |          |         | ]  |         |                  | i d        | 1000          |     |  |                |  |  |                | ı  |              | İ        |
| au       | ā        | 28               | 3              |              |                 |                 |          | i             |                   | ╝        | l   | È      | <u></u>     |          |                |              |                |          |         |  | L       | Ш                | قا         | 3 3           | 5   | Ш  |                | $oldsymbol{\sqcup}$  | _  | _              | _  | _            | <u></u>  |
| U        | N        | 57               | Π              |              |                 |                 |          |               |                   |          |     |        |             |          |                |              |                |          |         |  |         | Ш                | L          | _             | 10  | Ш  | Щ              |  | _  | $\dashv$       | _  | _            | _        |
| П        | 2        | VV               | 1              |              |                 |                 |          |               |                   | ٦        | [   |        | 52          |          | $\Box$         | Ι            | $\perp$        | $\prod$  | m I     | $\mathbb{L}$                                   |         | Ш                | L          | _             | 12  | Ш  | Ш              |  |  | ┙              | _  |              | L        |
| П        | 3        | W                | 1              | П            | $\neg$          |                 |          | $\neg$        | $\top$            | ٦        | ĺ   |        | 53          | Т        | П              | T            | Т              | Т        | Т       | T  |         | $\prod$          |            | 1             | 13  |  |                |  |  |                |  |              |          |
| H        | 4        | VV               | 1              | Н            | ┪               | $\dashv$        |          | ┪             | 7                 | ┪        | Ì   | $\neg$ | 54          | 寸        | 1              | $\top$       | 十              | _        | ┰       |  | 丁       |                  |            |               | 14  |  |                |  |  |                | $\Box$   | $\Box$       |          |
| H        | 5        | V                | 1              | Н            | $\neg$          | ┪               | ╗        | ┪             | 十                 | ٦        | ı   |        | 55          | ╗        | 7              | 7            | T              | T        | 7       | 1  | T       |                  | Г          | Ţī.           | 15  |  | $\Box$         | П  |  | $\Box$         | $\Box$   |              | Γ        |
| H        | 6        | VU               | <b>├</b>       | Н            |                 | -               | 一        | ┪             | 寸                 | ┪        |     | $\neg$ | 56          | 一        | 十              | 十            | 十              | 丁        | 丁       | 十  | †       | П                | Γ          | 1             | 16  |  | П              | П  |  | $\neg$         | $\Box$   | $\neg$       | Γ        |
| Н        | 7        | VV               | ∤─             |              | _               | ヿ               |          | 7             | _                 | ᅥ        | ]   |        | 57          | 寸        | _              | 十            | $\top$         | 十        | 十       | $\top$   | 1       | $\Box$           |            | 1             | 17  | П  | $\Box$         | П  | $\neg$   |                | ヿ  | $\neg$       | Γ        |
| Ħ        | 8        | VV               |                | Н            |                 | ┪               | ┪        | ┪             | ╅                 | ᅱ        |     |        | 58          | ┰        | +              | 十            | $\top$         | +        | +       | 十  | +-      | П                | r          | 1             | 18  | П  | П              |  |  | コ              | ヿ  | ╗            | Γ        |
|          | B        | - 10             | V              | Н            |                 | ┪               | ᅥ        |               | +                 | ┪        | ı   | -      | 59          | 7        | -+             | +            | $\top$         | $\top$   | ╅       | ╁  | ╅       | $\Box$           | <u> </u>   | 7             |     | П  | $\Box$         | $\sqcap$   | $\neg$   | ╛              | ╗  | ╛            | Γ        |
| H        | 10       |                  | V              |              | $\dashv$        | $\dashv$        | -        | ┪             | $\dashv$          | ᅱ        | ı   |        | 60          | +        | +              | +            | ╅              | +        | ╁       | ╅  | 十       | +                | F          | 1             |     |  |                | $\sqcap$   | 一  | $\dashv$       | _  | $\dashv$     | Γ        |
| ┝┥       | 11       |                  | V              | -            |                 | -               |          | {             | -+                | ᅥ        | ł   |        | 61          | +        | ┪              | ╅            | $\dashv$       | +        | ╅       | ╁  | ╁╴      | ╁╼┨              | ┢          | 1             | _   | Н  | $\vdash$       |  |  | ┪              | $\neg$   |              | r        |
| $\vdash$ | 12       | -                | V              | ┡╌┤          | $\vdash$        | -+              | -        |               | ┯┼                | ᅱ        | 1   |        | 62          | $\dashv$ | +              | +            | +              | +        | +       | +  | +-      | +                | <b> </b> - | _             | 12  | $\vdash$   | ┌─┤            | ┌┤   | $\dashv$   | +              |  |              | Τ        |
| Н        | 13       |                  | 1              | ┝┤           |                 |                 | $\dashv$ | -             | +                 | $\dashv$ |     |        | 63          | $\dashv$ | +              | +            | ╁              | +        |         | +  | +       | +                | -          | _             | 13  | ╁┈┤  |                | $\vdash \vdash$  | $\vdash$   | $\dashv$       | -  |              | $\vdash$ |
|          | _        | ┢┿╾              | +-             | H            | $\dashv$        | +               |          |               | $\dashv$          |          |     |        | 64          | $\dashv$ | +              | +            | $\dashv$       | +        | ╬       | +-   | +       | +                | -          | _             | 14  | ╁╌┤  | H              | $\vdash \vdash$  |  | -+             | $\dashv$   |              | ۲        |
| $\vdash$ | 14       | -                | <del> -</del>  | $\vdash$     |                 |                 | $\dashv$ |               | +                 | 4        |     |        | 65          | +        | +              | +            | $\dashv$       | +        | ╬       | +  | +       | +                | -          |               | 15  | $\vdash$   | $\vdash$       | ┟╾┫  |  | $\dashv$       | $\dashv$   | $\dashv$     | H        |
|          | 15       | -                | ╂              | $\vdash$     |                 | 4               |          |               | -+                | 4        |     |        | 66<br>66    | -+       | +              | +            | +              | +        | +-      | +  | - -     | H                | $\vdash$   | _             | 16  | -  | $\vdash$       | ┝╌┤  | ┌╌┤  | $\dashv$       | $\dashv$   | $\dashv$     | H        |
| Ш        | 16       |                  | ┼              |              |                 | -+              | _        | _             | $\dashv$          | 4        | }   |        | 87          | $\dashv$ | +              | +            |                | +        | +       | +  | +       | +                | <br> -     |               | 17  | $\vdash$   | $\vdash$       | ┟╌┤  | <del>                                     </del> |                | $\dashv$   | $\dashv$     | H        |
| $\vdash$ | 17       | _                | ↓_             | Н            | $\dashv$        |                 | _        |               | 4                 | 4        |     | _      | _           |          |                | $\dashv$     | $\dashv$       | +        | +       |  | ╀       | $oldsymbol{H}$   | -          |               |     | ₽  | $\vdash$       | $\vdash$   | $\vdash$   | $\dashv$       | -  |              | ┝        |
|          | 13       |                  | ↓_             | Щ            | $\Box$          | _               |          | $\Box$        | 4                 | 4        |     |        | 68          |          | -              | 4            | -              |          | +       | 4  | ┿       | <del> </del>     | ⊢          | _             | 18  | $\vdash$   |                | $\vdash$   |  | $\dashv$       |  | _            | ⊦        |
| Ш        | 19       |                  | _              | Ш            | $\sqcup$        | _               | _        |               | _                 | _        |     |        | 69          | _        | _              | 4            | -              | 4        | +       | +  | ╄       | <del>  -  </del> | -          | -             | 19  | $\vdash$   | $\vdash$       |  | $\vdash$   | $\dashv$       |  |              | Ļ        |
|          | 20       |                  |                |              |                 |                 |          |               |                   | ╝        |     |        | 70          |          |                |              |                |          |         |  |         | Ш                | <u> </u>   |               | 20  | $\Box$   |                | Ш  |  |                |  |              | L        |
|          | 21       |                  |                |              |                 |                 |          |               |                   |          | l   |        | 71          |          |                |              |                | $\perp$  |         |  | ┸       | Ш                | L          | _             | 21  |  |                | Ш  |  | Ц              | $\Box$   |              | L        |
|          | 22       |                  | Π              |              |                 |                 |          |               |                   |          |     |        | 72          |          |                |              |                |          |         |  |         | Ш                |            | _             | 22  | <u>L</u>   |                | Ш  |  | $\Box$         |  |              | L        |
| П        | 23       |                  | Π              |              |                 | $\Box$          |          |               | $\neg$            | ٦        |     |        | 73          |          |                | $\neg$       |                | Ī        |         | Τ  |         |                  |            | 1             | 23  |  |                |  |  |                |  |              |          |
|          | 24       |                  | Г              |              |                 |                 |          |               | $\neg$            | ╗        |     | $\Box$ | 74          | 1        |                | 丁            | $\Box$         | 1        |         | Т  | Т       | $\Box$           | Г          | 1             | 24  |  |                |  | П  |                |  |              | Γ        |
| Т        | 25       |                  | ╁              | П            |                 |                 |          |               | 寸                 |          | 1   |        | 75          | $\neg$   | Т              | T            |                |          |         | Т  | T       | П                | Г          | Ţi            | 25  | Π  |                |  |  |                |  |              | Г        |
| Н        | 28       |                  | 1-             | П            | H               | ┪               |          | •             | 寸                 | ╗        |     |        | 76          |          | T              | T            | 寸              |          |         | $\top$   | Т       |                  |            | h             | 26  | П  | П              |  |  | П              | $\Box$   |              | Γ        |
| -        | 27       |                  | İΤ             | П            | $\Box$          | _               |          |               | 寸                 | $\neg$   |     |        | 77          | ┪        | _              | 寸            | 寸              | ┲        | 7       |  | T       | $\Box$           |            | 1             | 27  |  | П              |  |  |                |  |              | Γ        |
|          | 28       |                  | †              | Н            | H               | _               |          | $\overline{}$ | 1                 | ヿ        |     | $\Box$ | 78          | -1       | $\dashv$       | ┪            | 7              | 十        |         | $\top$   | $\top$  | $\Box$           |            | 1             | 28  |  | П              |  |  | $\sqcap$       |  |              | Γ        |
|          | 29       |                  | ╁╌             |              | H               | $\neg$          | $\neg$   | _             | 寸                 | $\neg$   |     |        | 79          |          | _              | 7            | +              | +        | _       | +  | +       | П                | -          | į.            | 29  | T  | П              | П  |  |                |  |              | r        |
| $\vdash$ |          | -                | $\vdash$       | -            | $\dashv$        | $\dashv$        | 一        |               | $\dashv$          | $\dashv$ |     |        | 70          | _        | 十              | ┪            | +              | 十        | +       | 十  | +       | Н                | <u> </u>   | _1_           | 30  | ┢  | П              | П  | П  |                |  | П            | r        |
| Ľ        | 30<br>31 |                  | ╁              | $\vdash$     | $\vdash$        |                 |          |               | -                 | $\dashv$ |     |        | 81          | -        | $\dashv$       | ┪            | ┪              | ╅        | -       | ╈  | +-      | +1               | 上          | h             | 31  | t  | H              | Н  | H  | _              |  |              | t        |
| $\vdash$ | 32       | $\dashv$         | ⊬              | ⊢            | $\vdash$        | -               |          |               | -                 | $\dashv$ | - 1 |        | 82          | ┪        | 十              | ┪            | 一十             | 十        | +       | ╅  | +-      | +                | -          | _             | 32  | †  | <b></b>        |  |  | $\sqcap$       | $\Box$   |              | r        |
| H        | 37.      |                  | ┼              | ┝╌           | $\vdash$        | $\dashv$        | $\dashv$ | $\vdash$      | $\dashv$          | ᅱ        |     |        | 83          | ┪        | 十              | +            | ╅              | $\dashv$ | +       | ╅  | +       | Н                | ⊢          | _             | 33  | $\vdash$   | Н              | Н  | H  |                | П  |              | H        |
| $\vdash$ | 34       | -                | <del>  .</del> | $\vdash$     | ⊢┤              |                 |          | $\dashv$      | $\dashv$          | $\dashv$ |     |        | 84          | +        | -+             | +            | +              | $\dashv$ | +       | ╅  | ╁       | H                | ⊢          |               | 34  | <del>                                     </del> | H              | Н  | H  | $\dashv$       | $\vdash$   | $\Box$       | H        |
| $\vdash$ | _        |                  | ┿              | $\vdash$     | $\vdash \vdash$ |                 | $\dashv$ | $\dashv$      | $\dashv$          | $\dashv$ |     |        | 85          | -+       | +              | ┪            | $\dashv$       | $\dashv$ | +       | ╅  | ╬       | ╁╌┤              | -          |               | 35  | 1  | Н              | Н  | $\vdash \vdash$                                  |                | $\vdash$   | $\Box$       | H        |
| -        | 35<br>38 | $\vdash$         | ╁              | ⊢            | ┥               |                 |          |               |                   | $\dashv$ | ł   |        | 86          | +        | ┵              | $\dashv$     | $\dashv$       | +        | +       | +  | ╁       | ╂╌┨              | ⊢          |               | 36  | +-   | $\vdash\vdash$ | $\vdash$   | $\vdash$   | ┥              | $\dashv$   | $\vdash$     | H        |
|          | _        | $\vdash$         | -              | _            | $\vdash \vdash$ | $\vdash \vdash$ | _        | $\vdash$      |                   |          | 1   |        | 87          | -+       | +              | +            | $\dashv$       | ┰┼       | +       | +  | ╅       | ╂╌┨              | -          |               | 37  | +-   | Н              | Н  | <b>  </b>  |                | $\dashv$   | -            | H        |
| _        | 37       | <b>├</b> ┤─      | ┼              | $\vdash$     | dash            |                 |          |               |                   | $\dashv$ | ļ   |        | 88          | $\dashv$ | $\dashv$       | +            | +              | +        | +       | +  | ╁       | ┯┤               | ┝          | _             | 38  | ╁╌   | ┝╌┤            | ┟╾┤  | ┟╾┥  | <del>   </del> | <del>                                     </del> |              | -        |
|          | 38       | $\vdash$         | ┼              | -            | $\vdash \vdash$ | $\vdash \vdash$ | _        | H             |                   |          |     |        |             | 4        | +              | +            | $\dashv$       | +        | +       | +  | +-      | ₩                | -          | _             | _   | ┼  | H              | ⊢┤   | $\vdash\vdash$                                   | ┌─┤            |  | <del> </del> | ╀        |
| <b>.</b> | 39       | $\vdash \vdash$  | ╀              |              | ╟┈╣             | $\dashv$        | _        | <b>-</b>      |                   |          |     |        | 89          | 4        | -              | +            | -              | +        | +       | +  | ╫       | +                | ⊢          | _             | 39  | $\vdash$   | H              | $\vdash$   | $\vdash$   | ┌╌┥            |  |              | ╀        |
| _        | 40       | $\sqcup$         | ╄              | <u> </u>     | Ш               |                 | _        | Щ             | _                 | _        |     |        | 90          | 4        | 4              | 4            | 4              | $\dashv$ | 4       | $\bot$   | $\bot$  | +                | <br> -     | _             | 40  | ↓_   | <b></b> _      | $\vdash$   | Щ  | igspace        |  |              | L        |
|          |          | Ц.               | <u> </u>       | <u> </u>     | ᆜᆜ              | $\square$       |          | Щ             | $\Box$            | ╝        |     |        | 91          | _        |                | $\downarrow$ | $\bot$         | 4        |         |  | 1       | Ш                | L          | _             | 41  | <u> </u>   | <u> </u>       | Ш  | Ш  | Ш              | <b>  </b>  |              | L        |
| _        | 42       |                  | _              | $oxed{oxed}$ | Ш               |                 |          |               | $\Box$            |          | ļ   | _      | 92          |          | _              | _            | $\dashv$       | _1       | $\perp$ |  | $\perp$ | Ш                | L          |               | 42  |  | $\sqcup$       | Ш  |  | Ш              | $\square$  |              | L        |
|          | 43       |                  |                |              | Ш               |                 |          |               | $oldsymbol{\bot}$ | ╝        |     |        | 93          | _[       |                | $\perp$      |                |          |         |  | 1       | Ш                | L          |               | 43  | 上  | lacksquare     | $oxed{oxed}$   | $\square$  | Ш              | $oxedsymbol{oxed}$                               |              | L        |
|          | 44       |                  |                |              |                 |                 |          |               |                   |          | ļ   |        | 94          |          |                |              |                |          | $\Box$  |  |         | $\Box$           |            | _             | 44  |  | $\Box$         | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ |  |                |  |              |          |
|          | 45       |                  |                |              |                 |                 |          |               |                   |          | /   | _      | 95          |          | $\Box$         |              |                | $\Box$   | $\Box$  | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{I}}}$ | 1       |                  |            | ŀ             | 45  | L  |                |  |  |                |  |              |          |
|          | 48       |                  |                |              | П               |                 |          |               |                   | 7        |     |        | 96          |          |                |              | Τ              | $\Box$   |         |  | Τ       | $\Box$           | Г          | h             | 46  |  |                |  |  |                |  |              | Γ        |
|          | 47       |                  | П              |              | П               | $\Box$          |          |               | オ                 | $\neg$   |     | П      | 97          | ٦        |                |              | $\neg$         | 一        | $\top$  | $\top$   | T       | $\prod$          | Γ          | 1             | 47  |  | Π              |  | П  | $\Box$         |  |              | Γ        |
|          | 48       | <del>    -</del> | T              | T            | П               |                 |          | abla          |                   | ٦        |     | _      | 98          | 寸        | 1              | 7            | 1              | $\dashv$ | _       | 十  | 1.      | $\sqcap$         | ┢          |               | 48  | T  | Г              | П  | П  | $\sqcap$       | П  | Г            | T        |
|          | •        |                  | _              |              | _               | —               |          | -             | $\rightarrow$     |          |     |        | 99          | -+       | <del>-</del> + | -+           | <del>-</del> + | -        |         |  | -       |                  | ⊢          | 1             |     | +-   | _              | _  | -  | —              |  |              | +-       |

If more than 150 claims or 10 actions staple additional sheet here

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